

**MOUSE ANTI-HUMAN  $\beta$ 1 INTEGRINS, ACTIVE CONFORMATIONS  
MONOCLONAL ANTIBODY**

**CATALOG NUMBER:** MAB2079Z

**LOT NUMBER:**

**QUANTITY:** 100  $\mu$ g

**CONCENTRATION:** 1 mg/mL

**SPECIFICITY:** Monoclonal antibody MAB2079Z is specific for active conformation of human  $\beta$ 1 integrins. The  $\beta$ 1 or VLA integrin subgroup contains at least 10 members, each with a distinct alpha subunit noncovalently associated with the common  $\beta$ 1 subunit. Functional activation of integrins can be experimentally induced by addition of  $Mg^{2+}$  or  $Mn^{2+}$ , or by using one of several stimulatory antibodies that are available.

Intracellular signals generated as a result of cell activation also modulate the confirmation and affinity of integrins in cellular systems. Antibodies such as MAB2079Z which have the ability to discriminate between different states of integrin activation are exceptionally useful for studies on the regulation of activation.

Antibody MAB2079Z recognizes epitopes in the 355-425 region of the common  $\beta$ 1 subunit of VLA integrins, whose expression parallels the ligand binding activity of these adhesion receptors induced by various extracellular and intracellular stimuli.

**IMMUNOGEN:** Generated against human  $\beta$ 1 integrins purified from Triton X-100 lysates of human lung, liver, and skeletal muscle tissues. MAB2079Z was specifically selected due to its increased reactivity with T-lymphoblasts upon  $Mn^{2+}$  stimulation.

**ISOTYPE:** IgG2b

**CLONE:** HUTS-4

**APPLICATIONS:** ELISA  
Western blot  
Immunohistochemistry  
FACS analysis: 2.5  $\mu$ g antibody /  $5 \times 10^5$  cells.

**SPECIES REACTIVITY:** Reactive with human and rat  $\beta$ 1 integrins. MAB2079Z does not augment the affinity of beta 1 for ligands.

**FORMAT:** Purified immunoglobulin

**PRESENTATION:** 0.01M PBS, pH 7.1, containing no preservatives.

**STORAGE/HANDLING:** Store at 2-8°C for up to 12 months.

**REFERENCES:** Luque, et al. (1996) *J. Biol. Chem.* **271**: 11067.

*For research use only; not for use as a diagnostic.*

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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USA & Canada • Phone: +1(800) 437-7500 • Fax: +1 (951) 676-9209 • Europe +44 (0) 23 8026 2233  
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